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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,708	. 07/15/2003	Jose L. Ramos	017750-801	4909	
BURNS DOA	7590 02/23/200 NE SWECKER & MA		EXAM	IINER	
P.O. Box 1404	S, DOANE, SWECKER & MATHIS, L.L.P. pax 1404 dria, VA 22313-1404	UWEN			
Alexandria, V	A 22313-1404		ART UNIT PAPER NUMBER		
		•	2618		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MC	ONTHS	02/23/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/618,708	RAMOS, JOSE L.	
Office Action Summary	Examiner	Art Unit	
<u> </u>	Yuwen Pan	2618	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	vith the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 Cf after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN FR 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MO statute, cause the application to become A	ICATION. I reply be timely filed NTHS from the mailing date of this common ABANDONED (35 U.S.C. § 133).	
Status			_
1) Responsive to communication(s) filed on	20 November 2006		
· · · · ·	This action is non-final.		
3) Since this application is in condition for all		tters, prosecution as to the me	erits is
closed in accordance with the practice und	•	•	
Disposition of Claims		•	
4)⊠ Claim(s) <u>1-9</u> is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-9</u> is/are rejected.			
7) Claim(s) is/are objected to.		•	
8) Claim(s) are subject to restriction a	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exa	miner.		
10) The drawing(s) filed on is/are: a) □	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	prrection is required if the drawin	g(s) is objected to. See 37 CFR 1	l.121(d).
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attache	ed Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docur	nents have been received.		
2. Certified copies of the priority docur	nents have been received in	Application No	
3. Copies of the certified copies of the	priority documents have bee	n received in this National Sta	ıge
application from the International Bu	ıreau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a	a list of the certified copies no	t received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) 		(s)/Mail Date Informal Patent Application	
Paper No(s)/Mail Date	6) Other: _		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 1. obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pozgay et al. (US007079815B2).

Per claim 1, Pozgay discloses an apparatus (e.g. monolithic microwave integrated circuit transceiver) comprising: an antenna (see figure 1 and item 14); an A1GaN amplifier (see item 28) (e.g. balanced amplifier of an MMICs) connect to the antenna; a first switch that connect a transmit path, connected to the amplifier, which provides a signal for amplification of the amplifier; and a second switch that connect a receive path, connect to the amplifier, which a switch controller (the gain/phase control unit 22) that is programmed to adjust positions of the first and second switches (see column 1 and lines 50-67, column 3 and lines 34-colum and lines 14). Pozgay doesn't expressly teach the switching between transmit or receive path of the antenna is after a predetermined amount of time has elapsed since a prior adjustment. It is clearly obvious that a transceiver antenna always switch back and forth between the transmitting and receiving mode and the time for each mode is predetermined based on the system clock. Therefore, it is obvious to one ordinary skill in the art at the time the invention was made to

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further specify that each mode have its own time frame such that the remote terminal is about to synchronize with the transceiver when to receive or transmit.

Per claim 2, Pozgay further teaches a switch (item 12) with an output connected to the amplifier, a first input connected to the received path and a second input connected to the transmit path (see figure 1).

Per claim 3, Pozgay further teaches a second switch (item 18), wherein the second switch has first switch postions connecting a signal for transmission to the antenna, and a second switch position connecting the receiving path to the antenna (see figure 1).

Per claim 4, Pozgay further teaches that a switch controller (see item 22) which controls the first and second switches to selectively connect the antenna to the amplifier for amplification of a received signal and the amplifier to the antenna for amplification of a signal for transmission (see column 4 and lines 14-18).

Per claim 5, Pozgay further teaches that the AIGaN amplifier comprises three amplifiers (item figure 1 and item 60-64).

Per claim 6, Pozgay further teaches a high frequency amplifier for transmitting and receiving. Although Pozgay doesn't teach that such amplifier is formed of high electron mobility

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transistor (HEMT), it is well known in the art to have HEMT for using in a high frequency amplifier to provide to enhance amplification.

Per claim 7, Pozgay further teaches that the AIGaN amplifier are monolithic microwave integrated circuits (see column 2 and lines 1-4).

Per claim 8, Pozgay discloses a method for transmission and reception of signals comprising: setting a first switch (see figure 1 and item 18) to a first position, the first position connects a signal for transmission to an amplifier (see figure 2); setting a second switch to a first position, the first position connects the amplified signal for transmission to an antenna; setting the second switch, the second position connects a signal received from the antenna to a receive path; and setting the first switch, after the predetermined amount of time, to a second position, the second position connecting the receive path to the amplifier (see column 2 and lines 13-46). Pozgay doesn't expressly teach the switching between transmit or receive path of the antenna is after a predetermined amount of time has elapsed since a prior adjustment. It is clearly obvious that a transceiver antenna always switch back and forth between the transmitting and receiving mode and the time for each mode is predetermined based on the system clock. Therefore, it is obvious to one ordinary skill in the art at the time the invention was made to further specify that each mode have its own time frame such that the remote terminal is about to synchronize with the transceiver when to receive or transmit.

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Per claim 9, Pozgay further teaches that the second switch is in the second position the amplified signal from the receive path is connected to receiver circuitry (see column 3 and line 50-column 4 and line 13).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuwen Pan whose telephone number is 571-272-7855. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anderson D. Matthew can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 12, 2007